

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	18	((("6847744") or ("6832030") or ("6912346") or ("6850654") or ("6836599") or ("6760495") or ("6643433") or ("6658182") or ("6718095") or ("6763685") or ("6496643") or ("6466717") or ("5883992") or ("5694512") or ("5796885") or ("5479546") or ("5119453") or ("4946250")).PN.	US-PGPUB; USPAT	OR	OFF	2005/08/23 09:07
L2	0	L1 and few\$mode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 09:08
L3	3	(optical and coupl\$3 and few\$mode and fiber).clm.	US-PGPUB	OR	ON	2005/08/23 09:09
L4	58	(optical with coupl\$3) and (few\$mode with fiber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/23 09:10
L5	1	2005-295647.NRAN.	DERWENT	OR	ON	2005/08/23 09:11
S1	15	((("6847744") or ("6832030") or ("6850654") or ("6836599") or ("6760495") or ("6643433") or ("6718095") or ("6763685") or ("5818584") or ("5883992") or ("5694512") or ("5796885") or ("5479546") or ("5119453") or ("6574411")).PN.	US-PGPUB; USPAT	OR	OFF	2005/05/12 10:21
S2	12	((("4291940") or ("4330170") or ("4392712") or ("4426215") or ("4550974") or ("5864644") or ("6434302") or ("4205901") or ("5381503") or ("5664037") or ("6414262") or ("20030128723")).PN.	US-PGPUB; USPAT	OR	OFF	2005/05/12 10:27
S3	8	("5268979" "5295205").PN. OR ("5664037").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:36
S4	23	("4818062" "5185758" "5268978" "5708669").PN. OR ("5864644").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:37

S5	15	("3808549" "4291940" "4815079" "4820010" "5170458" "5263036" "5268978" "5355426" "5459804" "5553179" "5864644" "6134362").PN. OR ("6434302").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 10:42
S6	0	("2003/0128723").URPN.	USPAT	OR	ON	2005/05/12 10:44
S7	3751	((multi\$mode with (fiber or fibre)) or "MMF") and ((few\$mode with (fiber or fibre)) or (few with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 10:47
S8	525	((multi\$mode with (fiber or fibre)) or "MMF") and ((few\$mode with (fiber or fibre)) or (few with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 10:48
S9	433	((multi\$mode with (fiber or fibre)) or "MMF") and ((few\$mode with (fiber or fibre)) or (few with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 10:48
S10	409	((multi\$mode with (fiber or fibre)) or "MMF") and ((few\$mode with (fiber or fibre)) or (few with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 12:10
S11	0	("2005/0094952").URPN.	USPAT	OR	ON	2005/05/12 11:23
S12	509	((multi\$mode with (fiber or fibre)) or "MMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 11:30

S13	100	S12 not S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 11:24
S14	3296	((multi\$mode with (fiber or fibre)) or "MMF") and (double\$clad\$4 with (fiber or fibre)) or (two with clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 11:31
S15	1	("5864644").PN.	US-PGPUB; USPAT	OR	OFF	2005/05/12 11:53
S16	23	("4818062" "5185758" "5268978" "5708669").PN. OR ("5864644").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:54
S17	15	("3808549" "4291940" "4815079" "4820010" "5170458" "5263036" "5268978" "5355426" "5459804" "5553179" "5864644" "6134362").PN. OR ("6434302").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/12 11:54
S18	494	((multi\$mode with (fiber or fibre)) or "MMF") and (((few\$mode or single\$mode) with (fiber or fibre)) or ((single or few) with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF") and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:17
S19	85	S18 not S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 12:11

S20	645	((multi\$mode with (fiber or fibre)) or "MMF") and (((few\$mode or single\$mode) with (fiber or fibre)) or ((single or few) with mode with (fiber or fibre)) or "FMF") and (double\$clad\$4 with (fiber or fibre)) or ((double with clad\$4 with (fiber or fibre)) or "DCF" or "LACDCF" or (cladding\$pumped with (fiber or fibre)) or (clad\$4 with pump\$4 with (fiber or fibre))) and coupl\$4 and fus\$4 and mode and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:18
S21	151	S20 not S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:19
S22	1	2001-051872.NRAN.	DERWENT	OR	ON	2005/05/12 13:28
S23	23	(US-20030128723-\$ or US-20030012526-\$ or US-20040091219-\$ or US-20040196537-\$ or US-20040247271-\$ or US-20050094952-\$ or US-20040252946-\$ or US-20050031266-\$).did. or (US-4392712-\$ or US-5664037-\$ or US-5864644-\$ or US-6434302-\$ or US-6823117-\$ or US-6434295-\$ or US-5355426-\$ or US-5761234-\$ or US-6167075-\$ or US-6397636-\$ or US-6840687-\$ or US-5479546-\$).did. or (JP-11072629-\$).did. or (EP-1054276-\$ or JP-2001010838-\$ or EP-1054276-\$ or US-6397636-\$ or US-20020054740-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/05/12 13:44
S24	3	S23 and (few\$mode or (few with mode))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:47
S25	554	((single with mode) or single\$mode) and (few\$mode or (few with mode)) with fiber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:47

S26	443	((single with mode) or single\$mode) same (few\$mode or (few with mode)) with fiber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:50
S27	443	((single with mode) or single\$mode) same (few\$mode or (few with mode)) with fiber) and optical	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:48
S28	88	((single with mode) or single\$mode) with fiber) same ((few\$mode or (few with mode)) near2 fiber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/12 13:50
S29	26	(US-20030128723-\$ or US-20030012526-\$ or US-20040091219-\$ or US-20040196537-\$ or US-20040247271-\$ or US-20050094952-\$ or US-20040252946-\$ or US-20050031266-\$ or US-20040197062-\$).did. or (US-4392712-\$ or US-5664037-\$ or US-5864644-\$ or US-6434302-\$ or US-6823117-\$ or US-6434295-\$ or US-5355426-\$ or US-5761234-\$ or US-6167075-\$ or US-6397636-\$ or US-6840687-\$ or US-5479546-\$ or US-4877300-\$).did. or (JP-11072629-\$).did. or (EP-1054276-\$ or JP-2001010838-\$ or EP-1054276-\$ or US-6397636-\$ or US-20020054740-\$ or EP-307228-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2005/05/13 08:01
S30	3	S29 and dummy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/13 08:12
S31	5	S29 and gaussian	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/13 08:12

S33	3	((("6605782") or ("6102214") or ("5647763")).PN.	US-PGPUB; USPAT	OR	OFF	2005/05/16 16:16
-----	---	--	--------------------	----	-----	------------------

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

[Search Session History](#)[BROWSE](#)[SEARCH](#)[IEEE XPLORE GUIDE](#)

Edit an existing query or
compose a new query in the
Search Query Display.

Tue, 23 Aug 2005, 9:02:57 AM EST

Search Query Display

[Run Search](#)[Reset](#)

Select a search number (#)
to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Recent Search Queries

#1 ((optical coupler) and ((few-and mode) or few-mode)
<in>metadata)

[Clear Session History](#)

indexed by
 Inspec

[Help](#) [Contact Us](#) [Privacy & ;](#)

© Copyright 2005 IEEE –

Dialog DataStar[options](#)[logout](#)[feedback](#)[help](#)[databases](#)[advanced search](#)**Advanced Search: INSPEC - 1969 to date (INZZ)**[find](#)

Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	optical ADJ coupler AND (few ADJ ADN ADJ mode OR few-mode)	unrestricted	0	-
2	INZZ	optical ADJ coupler AND (few AND mode OR few-mode)	unrestricted	2	show titles

[hide](#) | [delete all search steps...](#) | [delete individual search steps...](#)Enter your search term(s): [Search tips](#) ☐ Thesaurus mapping Information added since: or:
(YYYYMMDD)[search](#)

Select special search terms from the following list(s):

- ☒ Publication year
- ☒ Classification codes A: Physics, 0-1
- ☒ Classification codes A: Physics, 2-3
- ☒ Classification codes A: Physics, 4-5
- ☒ Classification codes A: Physics, 6
- ☒ Classification codes A: Physics, 7
- ☒ Classification codes A: Physics, 8
- ☒ Classification codes A: Physics, 9
- ☒ Classification codes B: Electrical & Electronics, 0-5
- ☒ Classification codes B: Electrical & Electronics, 6-9
- ☒ Classification codes C: Computer & Control
- ☒ Classification codes D: Information Technology
- ☒ Classification codes E: Manufacturing & Production
- ☒ Treatment codes



INSPEC sub-file



Language of publication



Publication types

Top - News & FAQs - Dialog

© 2005 Dialog

[SPIE DL home](#) | [Scitation home](#) | [Search SPIN](#) | [help](#) | [contact](#) | [sign in](#) | [sign out](#)[SPIE Digital Library](#)[Proceedings](#)[Journals](#)**SPIE—The International
Society for Optical Engineering**[My SPIE Subscription](#) | [My E-mail Alerts](#) | [My Article Collections](#)[Home](#) » [Advanced Search](#) » [Search Results](#)

SEARCH DIGITAL LIBRARY

[\[Back to Search Query](#) | [Start New Search](#) | [Searching Hints\]](#)
[Advanced Search](#)[BROWSE PROCEEDINGS](#)✖ [Proceedings](#)✖ [By Year](#)✖ [By Symposium](#)✖ [By Volume No.](#)✖ [By Volume Title](#)✖ [By Technology](#)[BROWSE JOURNALS](#)✖ [Journals](#)✖ [Optical Engineering](#)✖ [J. Electronic Imaging](#)✖ [J. Biomedical Optics](#)✖ [J. Microlithography,
Microfabrication,
and Microsystems](#)[SUBSCRIPTIONS &
PRICING](#)✖ [Institutions &
Corporations](#)✖ [Personal
subscriptions](#)[GENERAL INFORMATION](#)✖ [About the Digital
Library](#)✖ [Terms of Use](#)✖ [SPIE Home](#)

Search Results

You were searching for : ((optical coupler) AND ((few AND mode) or few-mode))

You found 1 out of 196380 (1 returned)

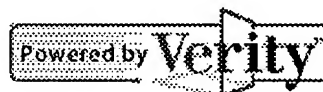
Documents 1 - 1 listed on this page

[Options for selected Articles](#)

Adding to MyArticles will open a second window (Scitation login required).

[\[Related SPIE Products \]](#)**77%**1. ☐**Vertically tapered polymer waveguide mode size transformer for improved fiber coupling**

Antao Chen, Vadim Chuyanov, Felix Ignacio Marti-Carrera, Sean Garner, William H. Steier, Jinghong Chen, Shajing Sun, and Larry R. Dalton

Opt. Eng. **39**, 1507 (2000) **Full Text:** [PDF (1658 kB)] (10 pages)[home](#) | [proceedings](#) | [journals](#)[Terms of Use](#) | [Privacy Policy](#) | [Contact](#)

© 1994 – 2005

The International Society
for Optical Engineering